

EnergyOS



Turning renewable energy uncertainty into predictable outcomes

Discovery Green's proprietary operating system combines three interconnected models on a shared data lake to forecast uncertainty, customise risk and optimise allocation before risk becomes cost.



01. FORECASTING

PREDICT THE FUTURE WITH PRECISION

Models generation, consumption and hourly market prices as probability distributions so Discovery Green can stress-test possible futures before risk becomes cost.

10 000

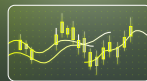
consumption simulations per client

87 MILLION

hours of generation simulated per site

>200 000

hours of simulated market prices modelled per stochastic run



02. CUSTOMISATION

UNIQUELY TAILOR RISK LEVEL

Enables clients to customise their renewable energy solution to meet their bespoke business needs. Clients choose their preferred level of risk exposure, while Discovery Green prices, absorbs and manages the remaining risk across its portfolio.

You choose:

RISK YOU KEEP

RISK DISCOVERY GREEN CARRIES

15+
bespoke
features

1 000+
modelled
price points

>100 000

permutations of client solutions



03. ALLOCATION

OPTIMISE ENERGY DISTRIBUTION

Combines forward-looking generation, consumption and market scenarios, iteratively tests possible allocations, optimises client outcomes and protects client commitments.

10⁴⁸

allocation scenarios simulated

1

optimal path selected

DATA LAKE

A continually expanding foundation of granular generation, consumption, market and product data



Consumption Data

- Historical consumption
- Demand profiles
- Industry dynamics
- Growth assumptions
- Site characteristics



Generation Data

- Weather forecast data
- Solar generation data
- Wind generation data
- Eskom REIPPPP
- Historical generation
- Global renewable generation
- Forecast generation outputs



Product Data

- Product type
- Contractual term
- Pricing structure
- Coverage and bespoke features



Market Data

- GDP and inflation
- Electricity demand
- Energy price signals
- Tariff structures
- Market volatility
- Supply-demand dynamics
- Regulatory and policy changes

ENERGYAI

Continuous learning and feedback powered by actuarial intelligence

**POWERING BETTER
CLIENT OUTCOMES**

2X

HIGHER
SAVINGS

90%

COVERAGE
HIGHEST
IN MARKET

88%

LOWER
VOLATILITY

WITHOUT ENERGYOS, RENEWABLE ENERGY IS JUST A COMMODITY

Based on Discovery Green modelling for a representative client over a 20-year contract term, using the most likely market-price scenario. Savings are calculated as mean NPV relative to the average mean NPV of other strategies. Volatility is calculated as the coefficient of variation relative to the average coefficient of variation of other strategies. Actual outcomes vary according to client consumption, contract structure and market conditions.